Alpha Chemika
ISO 9001 QUALITY SYSTEM CERTIFIED ORGANIZATION
MATERIAL SAFETY DATA SHEET
MSDS
Savgan Heights ; 102 ,B Wing ; R.T.O. Lane ,Andheri (West) Mumbai - 400053 , INDIA

Section 1 - Chemical Product and Company Identification

Product Name : 2,4-XYLIDINE 98%

Synonyms : 1-Amino-2,4-dimethylbenzene, 4-Amino-*m*-xylene, 2,4-dimethylaniline
CAS No.: 95-68-1
Molecular Weight: 121.18
Chemical Formula: $C_8H_{11}N$

Section 2 - Composition, Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
2,4-Xylidine	95-68-1	98-100%	Yes

Section 3 - Hazardous Identification

Risk advice to man and the environment
Toxic by inhalation, in contact with skin and if swallowed. Danger of cumulative effects. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Section 4 - First Aid Measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled
If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 - Fire Fighting Measures

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special protective equipment for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

Section 6 - Accidental Release Measures

Personal precautions
Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods for cleaning up
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7 - Handling and Storage

Handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Normal measures for preventive fire protection.
Storage
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section 8 - Exposure Controls, Personal Protection

Personal protective equipment
Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Hand protection
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.
Eye protection
Face shield and safety glasses
Skin and body protection
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Section 9 - Physical and Chemical Properties

Appearance
Form clear, liquid
Colour colourless
Safety data
pH no data available Melting
point -14,3 °C - lit. Boiling
point 218 °C - lit. Flash point
98 °C - closed cup Ignition
temperature 460 °C
Lower explosion limit 1,1 %(V)
Upper explosion limit 7 %(V)
Vapour pressure 0,51 hPa at 38 °C
0,21 hPa at 25 °C
Density 0,98 g/mL at 25 °C
Water solubility no data available
Relative vapour
density
4,18
- (Air = 1.0)

Section 10 - Stability and Reactivity

Storage stability
Stable under recommended storage conditions.
Materials to avoid
acids, Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Halogens
Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

Section 11 - Toxicological Information

Acute toxicity
LD50 Oral - rat - 467 mg/kg
Irritation and corrosion
no data available
Sensitisation
no data available
Chronic exposure
This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.
IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (2,4-Xylidine)
Genotoxicity in vitro - rat - Liver
Unscheduled DNA synthesis
Genotoxicity in vivo - mouse - Oral
DNA inhibition
Genotoxicity in vivo - mouse - Intraperitoneal
DNA damage
Signs and Symptoms of Exposure
Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer., Damage to the eyes., Nausea, Dizziness, Headache, Blood disorders
Potential Health Effects
Inhalation Toxic if inhaled. May cause respiratory tract irritation.
Skin Toxic if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.
Ingestion Toxic if swallowed.
Target Organs Eyes,
Additional Information
RTECS: ZE8925000

Section 12 - Ecological Information

Elimination information (persistence and degradability)
no data available
Ecotoxicity effects
Toxicity to fish LC0 - Leuciscus idus melanotus - 98 mg/l - 48 h
LC50 - Leuciscus idus melanotus - 196 mg/l - 48 h
Toxicity to daphnia
and other aquatic
invertebrates.
EC50 - Daphnia magna (Water flea) - 9,9 mg/l - 48 h
Further information on ecology
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Section 13 - Disposal Considerations

Product
Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging
Dispose of as unused product.

Section 14 - Transport Information

ADR/RID
UN-Number: 1711 Class: 6.1 Packing group: II
Proper shipping name: XYLIDINES, LIQUID
IMDG
UN-Number: 1711 Class: 6.1 Packing group: II EMS-No: F-A, S-A
Proper shipping name: XYLIDINES, LIQUID
Marine pollutant: No
IATA
UN-Number: 1711 Class: 6.1 Packing group: II
Proper shipping name: Xylidines, liquid

Section 15 - Regulatory Information

Labelling according to EC Directives
EC Label
Hazard symbols
T Toxic
N Dangerous for the environment
R-phrase(s)
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R33 Danger of cumulative effects.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)
S28 After contact with skin, wash immediately with plenty of .?.
S36/37 Wear suitable protective clothing and gloves.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Section 16 - Additional Information

NOT AVAILABLE